

Generic Emulator of Devices in a Device Communications Protocol

Abstract

5 The generic device emulator provides an operational emulation of the behavior of
any desired device within a device connectivity or other communications protocol as
specified in a description of the respective device. This facilitates development and
implementation of devices within a device connectivity architecture based on the
protocol, since the user has only to define the description of the device. The generic
10 device emulator provides default behaviors for a set of capabilities defined in the
description for the device, which can be over-ridden or augmented by user-provided
implementation of specific behavior for a capability. The generic device emulator also
permits the user to inject defect behaviors, such as to introduce defects in the device's
implementation of the protocol.

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